EHC Venus Towel Rail

Installation and technical manual

THESE INSTRUCTIONS SHOULD BE READ CAREFULLY AND RETAINED FOR FUTURE REFERENCE.

Model Numbers covered:

VCW700/450	VCE700/450
VCW970/450	VCE970/450
VCW1150/600	VCE1150/600
VWW700/450	VWE700/450
VWW970/450	VWE970/450
VWW2250/600	VWE1150/600

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1. Introduction

The Venus range of radiators from The Electric Heating Company are specially designed using the latest technology to create an elegant solution to your requirement

The Venus Range includes a standard wet range and an electric range. The electric range has a choice of thermostatic controllers

2. Storage

Venus radiators should be stored in their original packaging in an upright position in an area free from changing enviromental conditions such as damp and frost.

3. Unpacking the unit

Stand the box vertically and lift the radiator out . With the venus electric towel rail take care to unwrap the element (bottom right) carefully. Remove polythene cover, ensuring there is no damage to the raditor. For the the venus electric towel rail you will have an extra packet containing you thermostatic controller..

4. Package contents (Wet System)

For additional parts supplied with the Venus Electric Towel Rail see ITEM 5 Page 4

Contents List

Ref		Description	Quantity
A		Ladder Rail	1
B		Blanking Plug	1
C		Air Vent Plug	1
D		Wall Support	4
E		Masonry Wall Plug	4
F		Long Screw	4
G		Small Screw	4
H		Spacer	4
I		End Cap	4
J		Cross Bolt	4
K		Bracket Bush	8
L		Rubber Ring	4

Tools Required (not supplied)

	Description
	PTFE Tape
	Large Flat Screwdriver
	8mm Masonry Bit or 3mm Wood Bit
	Socket Set
	Spanner
	Clean Cloth

5. Package contents (Electric System)

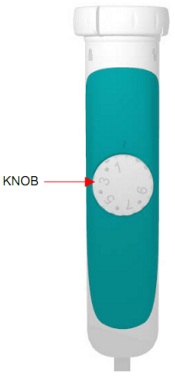
If you have purchased a Venus electric towel rail. The towel Rail will be filled and assebled. The electric element has also been fitted along with Part C and two off Part B (shown on page 3) will already be fitted

There will be an additional box containing the radiators thermosat (see below). The thermostat must be fitted by a qualified person and comply with current IEE regulations

The Thermostat must be wired to a fused spur. The fused spur must not have a switch if it is fitted in the bathroom. If a switch is required on the fused spur this must be mounted outwith the bathroom.

Control Thermostat

Deluxe Thermostat



Standard Thermostat

5. Installation – Mounting

Wet Towel Rails – Follow all instructions

Electric Towel Rails- Please refer to bathroom zones on page 8 and then skip to Item 4. Ensure that the the desired height allows clearance for your chosen thermostat.

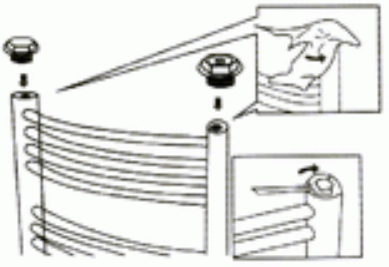
Prior to Installation

- Check that all of the parts are enclosed as per the contents list.
- If there are any missing or damaged parts please contact your supplier immediately.
- The four plastic caps on each corner of the ladder rail should be removed ang disposed of.
- Ensure that the ladder rail is positioned so that it can be easily connected to the central heating system.

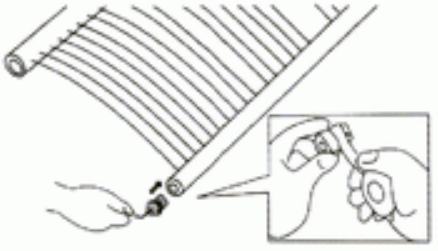
Assembly

1 Select your desired installation position and ensure that the wall is sufficiently strong enough to hold the weight of the ladder rail. Brick or breezeblock walls are ideal. If positioning on plaster-board wall it MUST be fixed to timber batons.

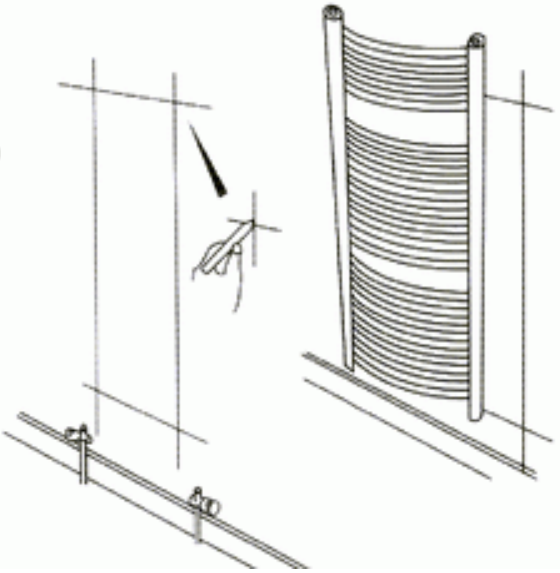
2 Screw the blanking plug **B** and air vent plug **C** into the top two threads in the upright channels of the ladder rail **A**. They can fitted on either side. Using a cloth to prevent scratching, tighten with a spanner. Apply PTEE tape.



3 Thread the tails from the radiator valves (not supplied) into the bottom two threads. Apply PTFE tape.



4 The wall supports should be fitted at approximately 10cms from the inside edge of the ladder rail - 2 near the top of the ladder rail and 2 near the bottom. The mounting height can be varied between any of the ladder rail bars to allow for finding the best fixing point on the wall. Mark the fixing points with a pencil.



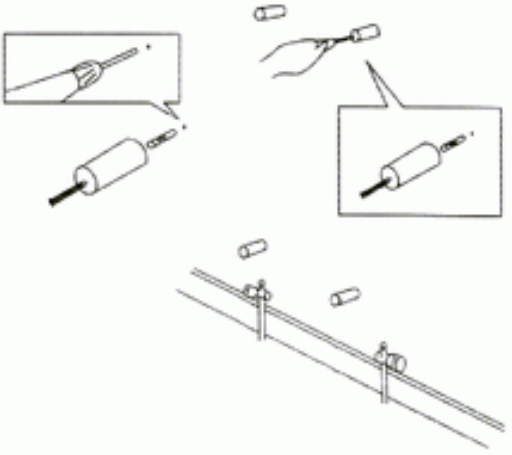
5. Installation – Mounting

Wet Towel Rails – Follow all instructions

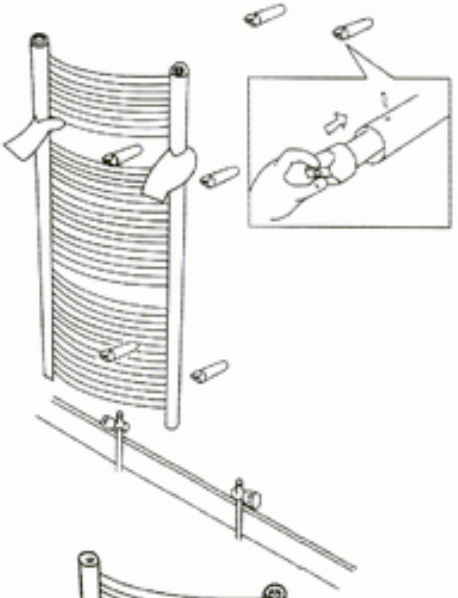
Electric Towel Rails – Follow all instructions

5 Mounting to Brick or Breezeblock
At the required fixing positions drill hole using 8mm masonry bit and insert the wall plug **E** into the hole ensuring it's flush with the wall. Place long screw **F** through the centre of the wall support **D** and tighten into the wall plug.

Mounting to Wood
Place long screw **F** through the centre of the wall support **D** and screw into the wooden baton at the required fixing positions.

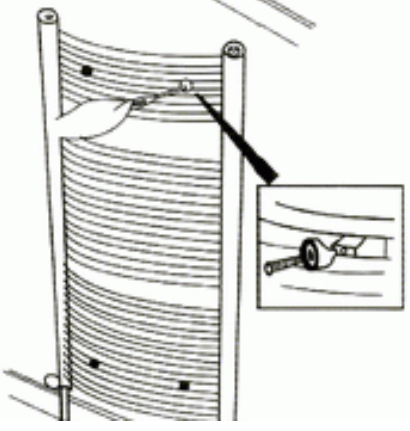


6 Place the spacer **H** inside the wall support and insert the small screw **G** into the hole in the wall support. Don't over-tighten to allow for adjustment later.



7 Offer the ladder rail **A** up to the fixing brackets and place bolt **J** through the bracket bush **K**.

Place the bolt between the selected ladder rail bars and thread into the wall support ensuring the square face of the bracket bush is aligned with the ladder rail.

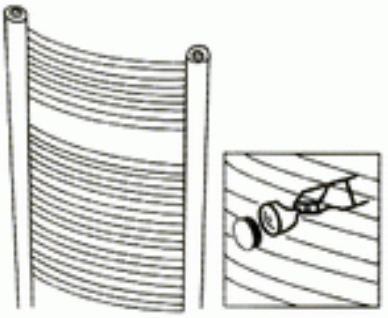


5. Installation – Mounting

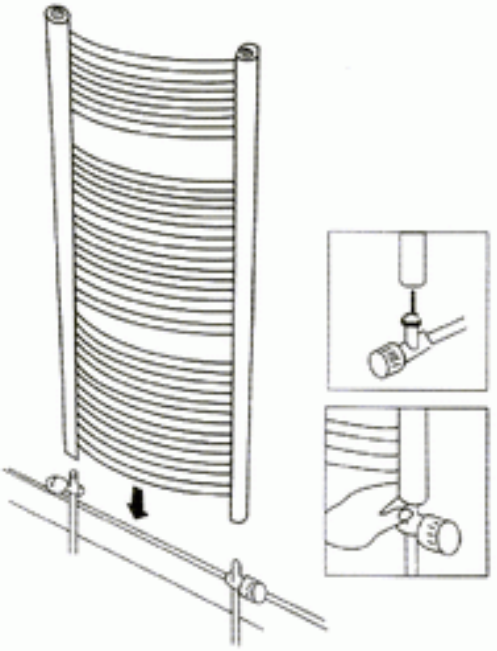
Wet Towel Rails – Follow all instructions

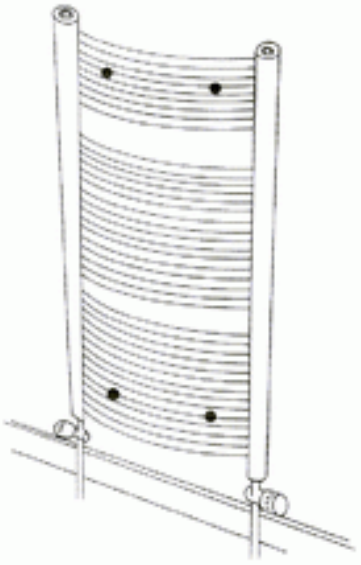
Electric Towel Rails – After item 8 go to page 8

8 Push the rail flat against the wall, adjust to required depth and tighten the small screws to secure. Push the end caps I over each of the bracket heads until they click into position.



9 Connect the radiator valve tail to the radiator valve and tighten securely. Apply PTEE tape.





Important

- Ensure that your central heating system is thoroughly flushed before use to rinse out any foreign residues.
- Wipe the surface clean with a soft, damp cloth. Never use abrasive cleaners on this product as they will damage the surface.
- It is recommended that a suitable inhibitor be added to the central heating system to help prevent internal corrosion and limescale build-up.

5. Technical Specification (electric and Wet)

Towel Rail Specifications								
Description	Rating Watts	Rasting BTU's	IPX 4 Rated	Element Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Product Code
Venus curve chrome wet	906	1051	N/A	N/A	450	700	5.2	VCW700/450
Venus curve chrome wet	413	1409	N/A	N/A	450	970	7.5	VCW970/450
Venus curve chrome wet	638	2177	N/A	N/A	600	1150	10.2	VCW1150/600
Venus curve white wet	335	1145	N/A	N/A	450	700	5.2	VWW700/450
Venus curve white wet	449	1532	N/A	N/A	450	970	7.5	VWW970/450
Venus curve white wet	693	2365	N/A	N/A	600	1150	10.2	VWW1150/600
Venus curve chrome electric	300	1024	YES	360	450	700	8.2	VCE700/450
Venus curve chrome electric	400	1365	YES	440	450	970	11.3	VCE970/450
Venus curve chrome electric	500	1706	YES	580	600	1150	15.9	VCE1150/600
Venus curve white electric	300	1024	YES	360	450	700	8.2	VWE700/450
Venus curve white electric	400	1365	YES	440	450	970	11.3	VWE970/450
Venus curve white electric	500	1706	YES	580	600	1150	15.9	VWE1150/600

6 . Elecrtric Towel rails - Installation

The towel rail is to be used only with a 230V ac supply. The towel rail has been filled and sealed.. The heating element has been fitted the raditator has been 95% filled to allow for expansion. The radiator must be mounted with the thermostat at the bottom. The Thermostat must be wired to a fused spur. The fused spur must not have a switch if it is fitted in the bathroom. If a switch is required on the fused spur it must be mounted outwith the bathroom.

Bathroom Zones - Installation

Using electrical in bath or shower rooms must conform to the current regulations. For exampe IEE wiring regulations have identified particular zones with the bathroom or shower room to indicate what type of electrical equipment that can installed and where.

The Electic heating companies electric thermostatic controla are CE certified and have IPX rating. Venus towel rails with the standard thermostatic control are rated IPX1 and must be installed in or outside of Zone 3 area (Shown in green) in the diagram below. The Deluxe control is rated IPX4 and can be installed in Zone 2 or Zone 3

Zone 0 – The interior of the bath or shower which can hold water

Zone 1 – The area directly above zone 0 limited vertically to 2.25m above the bottome of the bath or shower

Zone 2 – The area beyond zones 0 and 1, 0.6m horizontally and upto2.25m vertically

Zone 3 The area beyond zones 2, 0.6 M horizontally and up to 2.25M vertically

Please Note that the ionformation is given guidanced only. As with all electrical appliances you must consult a trained certified electrician and comply to the latest IEE wiring regulatiions

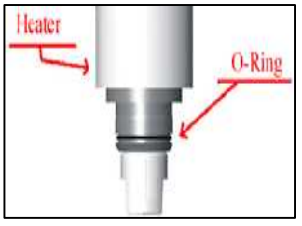
7. Installation – Deluxe Thermostat (venus electric only)

Do not apply power to the thermostat before it is fitted and locked to the Element on the towel rail.

Can be fitted in Zone 2 or 3

1. The distance of thermostat from the wall must be a value from 40mm to 80mm.

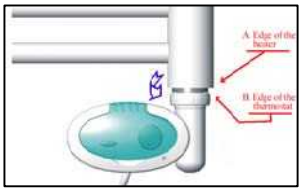
2. Ensure that the the 'O' ring on the element is in the position shown



3. Before inserting the element into the thermostat ensure that The index line (A) is line up with the open Padlock symbol (B)

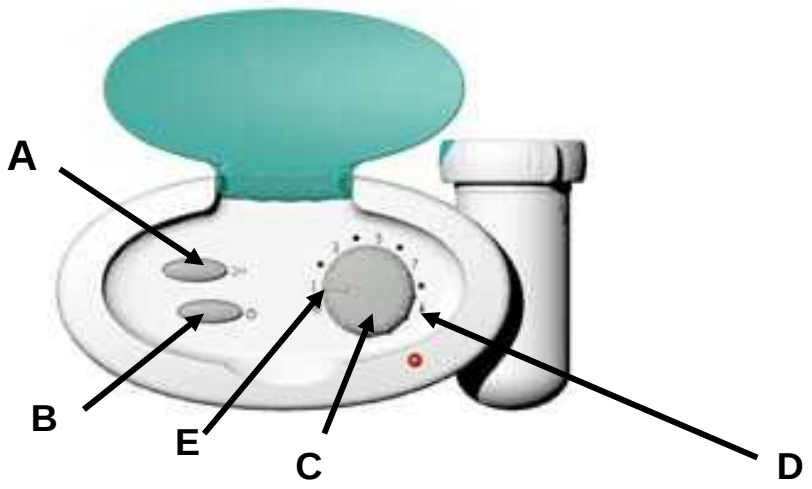
4. Insert the element into the thermostat with light pressure. Line up connections on element with correspondaing contacts on thermostatf required

5. Push the the thermostat vertical ensuring the edge (A) of the towel rail is against edge (B) of the Thermostat



6. Rotate the thermostat ring clockwise until index Line (A) lines up with the closed padlock symbol (B). Note~: You Should hear a click

7. Controls – Deluxe Thermostat (Venus Electric Radiators only)



Controling your Deluxe Thermostat

The thermostat has two buttons and a control knob as shown above.

A – 2 hour boost. Pressing this when the thermostat is switched on will give 2 hours continous maximum heat. When in Boost mode the thermosta LED will be RED and blink slowly. Press this button again to cancel

B – ON/OFF. Pressing this, switches on the power to the heating element. When the element is calling for heat the LED will be continous RED , When the element has reached the required temperature it will go GREEN. When the switch is in off position the LED is not illuminated

C – Control knob. Turn this to the desired temperature. The temperature range is 7-30 Deg C increasing clockwise.

D – Continous Mode. At the very end of the scale there is a temperature bulb, setting the control knob in this position will maintain maximum power continuously.

E – Frost Protection. At the very begining of the control knob scale there is a frost symbol. Setting the Control Knob here when the power switch B is on will ensure the radaitor will come on if the temperature falls below 7 Deg C, protecting the sytem against frost

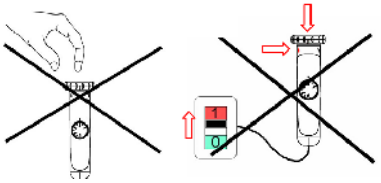
Technical Specifcation

Power Supply	230VAC 50 Hz
Max Heating Power	2000W
Insulation class	Class I or Class II
Water Protection Class	Class I IPXI Class II IPX4
Box Protection Class	IK09
Operating Temperature	0-50 Deg C
Storage Temperature	'-20-80 Deg C
Opertating Humidity	0-85 Deg C without condensation
Regulation	Proportionaland Integral
Temperature setting	Analogue wit control knob
Setting Temperature Range	7 DegC 15 - 30 deg C
Temperature Resolution	1/16 Deg C
Max Amplitude	0.5 Deg C

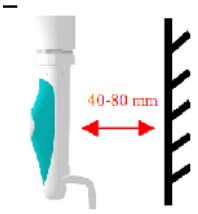
7. Installation – Standard Thermostat (venus electric only)

Do not apply power to the thermostat before it is fitted and locked to the Element on the towel rail

Can be fitted in Zone 3 only



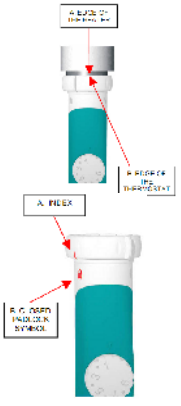
1. The distance of thermostat from the wall must be a value from 40mm to 80mm.



2. Ensure that the the ‘O’ ring on the element is in the position shown

3. Before inserting the element into the thermostat ensure that The index line (A) is line up with the open Padlock symbol (B)

4. Insert the element into the thermostat with light pressure. Line up connections on element with correspondaing contacts on thermostatf required



5. Push the the thermostat vertical ensuring the edge (A) of the towel rail is against edge (B) of the Thermostat

6. Rotate the thermostat ring clockwise until indexLine (A) lines up with the closed padlock symbol (B). Note~: You Should hear a click

7. Controls – Standard Thermostat (Venus Electric Radiators only)

Control knob. Turn this to the desired temperature. The temperature range is 0 -30 deg C increasing clockwise.

Power Supply	230VAC 50 Hz
Max Heating Power	2000W
Insulation class	Calss I or Class II
Water Protection Class	IPX 1
Box Protection Class	IK05
Operating Temperature	0-50 Deg C
Storage Temperature	'-20-80 Deg C
Opertating Humidity	0-85 Deg C without condensation
Regulation	ON/OFF
Temperature setting	Analogue
Setting Temperature Range	0-30 Deg C

8. Care and Maintenance

To clean the product, use a damp soft cloth. DO NOT use harsh chemicals, cleaning solvents or strong detergents.

When air is trapped in the radiator, it may cuase inefficient heating. Follow the instructions below in order to release trapped air from the towel rail.

Turn the plastic on top of the air vent by hand to the required direction.

i. As it is likey that a small amount of water will drain it is best practice to keep a small container underneath the bleed valve

ii Unscrew the air vent on the bleed valve using a radiator key until all the air is released. When all the air is released water will start to drain, imemmediatley tighten the air vent

Do not use in open enviroments and where the temperature is below 0 Deg C. If water freezes inside the radiator, damage will be caused

The maximum working pressure of the towel railis 10 Bar

9. Guarantee

Venus towel rails are guaranteed for 5 years, the electric element and controls for 1 year. The guarantee is against faulty materials or manufacture provided that:

1. It has been correctly installed as per this document and all the relevant standards, regulations and codes of practice in force at the time
2. It has not been modified in any way, other than by the manufacturer
3. It has not been misused, tampered with or subjected to neglect.
4. It has not been subjected to frost damage
5. The guarantee period starts from the date of purchase and no registration is required
6. The extended guarantee is not transferable, and rests with the original householder.
7. The system is fed from a public water supply.

EXCLUSIONS – THE GUARANTEE DOES NOT COVER the effects of scale build up, any labour charges associated with replacing the unit or its parts, nor any consequential losses caused by the failure or malfunction of the unit.

For advice, support, or further information on The Electric Heating Company's full range of electric heating products, or one of our free Product guide and installation DVDs, call now on **01698 820 533.**

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